

1 gacctacctc gacctttgtg ccaggttctt agcatatggg acctggatg gagtttagcgc
61 tcagttata gtaactcatt agccaggtgc ggtggctcat gtctgtattc ccagcacttt
121 gggagaccga gttgggtgga tcacttgaga gcaggagtt gagaccagcc tggccaacat
181 ggcaaaaacac tatctctaatt aaaaatacaa aaattagcca ggtgtggtgg cacttgctta
241 tagtcccagc tacacaggag gctggggcag aagaatcaact tgaacctggg aggtggaggt
301 tgcagtgagc caagattgca ccactgcact ccagcctgga aaaaaagggt aattaataac
361 tttacttgca accatagctg ctttccttc tttgagccac ccccaatcac ccacttagca
421 tccttcaggc ctAAA^Yctag gaggcgtgcc tggcctctg tcttggatg accccaagga
481 acccacataa gagggactga acatttgct gggcaaggct tccctttgct tgggcagact
541 ccactcattc tggggctgca gaggcaggac cattcagtca agctgatgtg ggattctgac
601 ctaaccaagt cccccccat tagtcctcat agccccacc tcccatgggg cagccctgag
661 acaggctctg tgacaatcca cagcagccct gtccaaacaga accttctgtg atcatggaaa
721 cattctgtgg ctgccaatct ggcagccact cgccacatgt gtctatgagc cttgaaatgt
781 ggccattgtg actgagaaac tgaacttta atggatttc atttttattt ttatttttt
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961 cctgggacaa caggcacccg ccaccacgcc cggctaattt tttgtatttt tagtagagat
1021 ggggtttcac catggctcg attcctgac ctcaggatgat ccacccgctt cggcctcccg
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1141 taaagcagcc atgtgatgaa atggcacttt gcctctgtgg tcttcctccc ccaaaccat
1201 aactgtaatc taattatgag aaaaacacag gacaattcca atagagagcc aggtgcagt
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1321 aatcaagacc atcctggcca acatggtaa accccgtctc tactaaaaat acaaaaattt
1381 gctggacgca gtgggtgtca cctgttagtcc cagctactcg ggaggctgag gcaggagaat
1441 catttgaacc cgggaggcag aggttgcagt gagctgagat cgccactcg cactccagcc
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1561 gggcgtgggtg gcacgtgcct gtaatcccag ctactcagag gctgaggcac aagaatcact
1621 tgaacctggg agacagagat tgcagtgagc cgagattgtg ccactgcact ccagcctggg
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1741 tccaagagag ggtcatcctg accaataactc ctcAAAacta tcaagggtgc tgggcacagt
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2521 cctataatcc cagcattttg ggaggctgag gatggatca cctgaggtca agagttgag
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2821 ttaccagggg ctgagggtt gtgactgcta atgggtacag ggtttcttc tggagtgata
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3361 tcttggccccc taggctggag tgcaatggcg tgatctcagc tcaccgcaac ctccgcctcc
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3481 accatgcctg gctaattttg ttttttagt agagacaggg ttattccatg ttggcaggc
3541 tggtctcgaa ctctccaccc caggtgatct gccagcctca gcctccaaa gtgctggat
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FIGURE 1A

3661 ctataattca gactcaggcc tttggaatcc aaagcccagg tttttctcac aaaccacac
3721 tgcagagcgg agtgggtggaa aaaaataaaa cctctgcctt ggaatcagac agatctaaac
3781 tggagcccta ttttgtcatt tgccaactgt gtgaccttgg gcaagttacc gcaactctct
3841 gaacctgtct ctttatctgc aagggtcaca actgatggga ctattcaacc agaccagtg
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4141 ggtctctcta tggcccag gctgcacttc cttctgtct cccttatccc agcgtccgac
4201 tgaactgacg gcttgcttt ccccaaccag cccgtgaagc tgggctgagt acaaagtgg
4261 gggtagtggg gtcaagattg taagatctga aaactccaga aaccatccct ttggtaaca
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4381 gtcattcctg caacagacag attcaaggcc agccccaaac tcagccaaga gcaaagcaaa
4441 cactccagcc ttatctggc agggttgtgt ggagactgac tataagacta tacctgagac
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5641 gttgtaagct ccatgagggtt agagattattt attattattt ttattatttttatttattt
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6061 atataaaactt tatatatata aagtttcat taaaaaaaaaaa aaaaacctc tacccacttt
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6301 ggccgtgtgg cagttccgca aatgtatcaa gtgcgtgatc cggggagtg acccccttYtt
6361 ggaataacaac aactacggct gctactgtgg ctggggggc tcaggcaccc ccgtggatga
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6781 atcgctttca ggccaggcgc ggtggctcat gcctgtatcc ccagcactt gggaggccga
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6901 tgtctctact aaaaaataca aaaattagcc ggacatggtg gcgagcgcct gtaaccccaag
6961 ctacttgggaa gactgagggtt gagggttcag tgagccaaagg tcgtgtcaact gctgtccagc
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7141 tccccacactg ttccctgagag tggcagggtg agggctgacc tattgctctg cacttactcc
7201 tatctcagct gtcctccca cttccaggt gctgccagac acatgacaac tgctaygacc
7261 aggccaagaa gctggacagc tgtaaatttc tgctggacaM Mccgtacacc cacacctatt

FIGURE 1B

7321 *catactcRtg ctctggctcg gcaatcacct gtagcagtag gtttatccct tccttgacct*
7381 *atgaattcta gttgggtctc agtaggcccgg ggggaaataa tagtaacaac agccatgatt*
7441 *tagtgttaat tttcttgggtt ctgggcagtg tctcctttaa tcctcagaac aacactatgg*
7501 *gataggtaca attatcctca cttAACAGAT aagAAAACGT aggCTCAGAA ggCTGAGCTA*
7561 *tttGCCCAAG atCACACAGC ttGTAAGTGG tgACAGTTG gTTTTTTT tGTTGGTGTt*
7621 *tagAGACAGG gtCTTGTCT gTCACCCAGG catGAGCACA gtGGTCAAC catAGGTcAC*
7681 *tGCAGCCTCA acCTCCTGAG ctCAAGGGAT ctGCTGACCT cAGCCTCCC AGTAGCTGGG*
7741 *actACGAGCG tGCACCACCA CGCCTGGCTA attAAAAAAA tTTTTTGTA gagACTGGGT*
7801 *ctTACTACGT tGGCCAGGCT tGTCTTAAAC tcCTGGCTTC aAGCAATCCT CCTACCTTGG*
7861 *catCCCCAAAG tgCTGGGATT ACAGGGGTGA gCCACCATGT gCGGCTACTT attTCTTAC*
7921 *attCCATCTT tCCAATAGAA tgTAAGATCC ACAGAACAGG gATTACTGCC tATTCTTC*
7981 *ctTTCTTTT tgAGACAGAG tCTCACTTC tcACCTCAAC CTCCGTTAG CTCACTGCAA*
8041 *cCTCTGCCTC CCGGGTCAA gYgATTCTCC tGCCTAAGCC tcCTGAGTAG ctGGAATTAC*
8101 *aAGCGTGCAC cACCATGCTT ggCTAATTt ttGTATTtTt agCAGAGATG gGGTTTACc*
8161 *atGTTGCCA ggCTGGTCTC aaACTCCTGA CCTCAAGTGA tCTGCCTGCC tcAGTCTCCC*
8221 *aaAGTGTGG aATTATAGGC gtGAGTCACT gtGCCTGGCC gATTACTGTC tATTCTTT*
8281 *attGCTATAT CCCAGATCT agAGCAGTGT ctGACATATA gtAGGTGCTC aATAAATAAT*
8341 *tGATGAATGC acAGCCTAGA tATAAACTTT ctTTTCTTT ttTTAAAACA atCTTGACAA*
8401 *ctTTGCAAGAA tAAATACAAAT ctTGCAATTCT gCTTTTCACT ttATCACCTT gTTATGACTT*
8461 *ttTCATATTG CCTCAAACCT ttATTGTTAC tGTTTTTCA ttGTTACTAT ttTAGTCACT*
8521 *gaATAATATG gCTTAATTG ctTATACATC ctCCCTGCTCC ACTTTAGAAG gCCAATTAA*
8581 *caaATCTGAT gAAAGCTATG aACCCTCTCC ccAGAGAAAT ACACACACAC ACACACACTC*
8641 *acACACAGTT ttTTTTAAT gTTGCAACT aAGACAAGAA acCTGCATTA gaggATGTTT*
8701 *gtTCATATTAA attAAAAATA actCAGTTGG gcACAGTGAC tCAAGCCTGT aACCACAGTA*
8761 *ctTTGGAAGT cCAAGGTGGG tGGATCACTT gagGTGAGAA gTTGAGACC agCCTGGTCA*
8821 *atATGGTGAAC ACCCTATCTC tactAAAAAT aCAAAAATTa gCTGGGTGA gtGATGCAc*
8881 *cCTGTAGTCC cAGCTACTCG ggAGGCTGAG gCAAGAGAA TGTTGAACC tGGGAGGCAG*
8941 *aggTTGCAgT gagCCGAGAT CCCACCCTG cACTCCAGCC tGGGCGACAC agCGAGACTC*
9001 *tATCTAAAAA AAATAAATAA ATAAAATAA ggATCGGAGA gAAACAAAAC TAATAAGATT*
9061 *cCTGAAGGTA agCAGAGATA CGTAAATTAT atGTAATAAA gTTAAATGC attTTAACTG*
9121 *taATCTTATT gTTTATTtT gTTATAAAAG tAAACAAGCC AAAAGTAATG caACTTCAA*
9181 *cKctacataa atATCTTATT tgAAAGTGG aAGGCACTA taATCCTACT accCAAAGAT*
9241 *aACCAGTTAC atATTCCCTCC agATTTTGG gGCATACACT agCTTTTTT attTGGAAA*
9301 *attTCCATGT gcAGGCATAC cTAATTtTtC tAAATGTCTA tGTAGTATTc cATTAAAGGA*
9361 *tGTTCCATAA ttTTAAAAT acATGCTTA aAGTAGAGAA ACTAGTTGG gCATGGTGGC*
9421 *tcACGCCtGT atCCCAGCAC ttTGGGAGGC cgAGGCAAAT ggATCActTG agGTCCGGAG*
9481 *tttGAGACCA gcCTGGACAA catGATGAAA cACCCTCTCT AATAAAAATA cAAAATTAG*
9541 *ctGGGcatgg tggCAAGCAC ctGTAGTCCC agCTACTCAG gagTCTGAGG cAGGAGTAC*
9601 *acttGAACTC aggAGGCAGA agTTGAGTG agCTGAGATC acGCCACTGC acTCCAGCCT*
9661 *aggCGACAAA aggGAAACTC CGTCTAAAAA ACAAAACAAA ACAAAAAAAAC acAGGATGCC*
9721 *cAGATAAATA tgACTTTCAg ATAAGCAATG gATAATTtT tGGGGGTAT atGTCCAAA*
9781 *tATTGATTc ATTGTTATC tgAAAGTCAA ATTAACTGG gCATCCTGAT gtACTGTAT*
9841 *tcACTTAATC tGTCAGCCt AAATGTGCAt cAGTGGAAAT gCTGCCAGCT tATTCCAGTT*
9901 *aATTCTTCTT gCCCCAGATT gtACAAAACA gGGTCCACCT tGGCTCAGTC ctCTCCTTc*
9961 *atCCCTCTCC aggCAAAAAC aaAGAGTGT gggCttCAT ttGCAACTGC gaccGCAACG*
10021 *ctGCCATCTG ctTTTCAAAA gCTCCATATA aCAAGGCACA caAGAACCTG gACACCAAGA*
10081 *agtATTGTCA gagTTGAATA tcACCTCTCA aAAGCATCAC ctCTATCTGC cTCATCTCAC*
10141 *actGTACTCT cCAATAAAAGC acCTTGTGA aAGACCTCAT gTTGGATAT tGTTTATTc*
10201 *tCTGTCTATA aACTAGGTCT ctGCCTACTC ttTTATTtTt atGTATTtT tTTTCTTAGG*
10261 *tGGAGTCTTG ctCTGTGGCC cAGGCTGGAG tGCAGTGTG ccACCTGCC tcACTGCAAC*
10321 *ctCCGCTCC CGGGCTCAAG CAATCCTCCC GCCTCATCCT CCCGAGTAGC tGGGACCATA*
10381 *ggCATGCACC ACCATGCCTG gCTAATTtTt gtATTtTTG tagAGACAGA gTTTGCCT*
10441 *gttGCCCTGG ctGGTCTCAA acTCCTCAGC tTAAGTGTAC tGCCTGGCTC gGCCTCGCAA*
10501 *agtGTTGGGA ttACATGCAt gAGCCGCCGC gcCTGGCTAC tCTGCTAGT ctTTGTGAG*
10561 *tATCATTCT tCCAGCCTTG gaAGCTAAGT tGAATTAGAA AGACACTTCC agGAAGCAAG*
10621 *caAGCACCTT gAAACCTGAG TAATGATTAA CGATCACCt CTACTGATTA tTTACTCTGT*
10681 *accAGGACTG tGTGTCATA AATCCTCTTG acAGCCCTGT gagGTATTGG CGCTATTAGC*
10741 *aaATCTTATT tTCCTAAAGCT gAGGCTAAt AGGAGAGTC acTTTCCAA tgCTATCTAC*
10801 *tagTAAGCAG cAGAGAAGGA ATTGAACTC ggCAAGTCTA ACAACAGAAA ACACATGCTG*
10861 *aACCACtGCC ctTCCCTGCC tGAAGTGGTA ggCTTGTAGTT tgAGGCCAGAC ctTGCCCCG*
10921 *tCTCATGATT ctGCCTCCAT ttTCAACTGT attAAACCAT ttTTCTACAA tgACTTTCTT*

FIGURE 1C

10981 tttttttttt ttttttgaga tggagtctcg ctctgtcgcc caggctggag tgca
11041 caatctcggc tcactgcaag ctctgcctcc caggttcacg ccattctcct gcctc
11101 cccgagtagc tgggtttaca ggctcctgcc accacgccc gctaatttt tgtattttca
11161 gtagagacgg ggtttcaccg tggtagccag gatggtctcg atctcctgac ctcgtatcc
11221 gccccgcctcg gcctcccaa gtgctggat tacaggcgtg agccaccgca cacggccacg
11281 actttctttt ctaaataaaa gacttcacca cactctacag gctaattttg acactgttagt
11341 catgaaatat aataaacatt aacaagccga gcatggcggc acgcgcctat gatcgttagct
11401 actcaagagg ctgaggcagg aggatctttt gatcccggga gtttgaggct gcagttagct
11461 atgatcacac cactgcactc cagcctgggt gaaagagtga gaccctgttt caagctacta
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11641 cacaaaacMc aaacaaaaca aaacaaaaca aaacaaaaca aaacaaaaaa ccaataacag
11701 cttgcatttc tggagcactt actgcataact tccttgcgtc gagtttcca catctcatct
11761 cattaaatgt tcaaaccagc tctgtgatat tgatattttt gctcccat tt catggatgt
11821 gaactaaaaaa ttcagagaag ttaagtcat tgcataagat cacacaaatg gcaaaaatcag
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12001 gggacagtgg ctcacgcctg taatcccagg actttgagaa gtcttaggtgg gcagatcact
12061 tgaggccagg agtttgagac cagcctggcc aacatggcaa aaccctgtct ctactaaaaaa
12121 atacaaaaat tagccgagta tggtgccata ggcctgtat cccaaactact cagg

Title: DIAGNOSING PREDISPOSITION TO FAT
DEPOSITION AND ASSOCIATED CONDITIONS

First Inventor: Gail Isabel Reid ADAM

Docket No.: 524592003100

Sheet 5 of 23

MKLLVLAVLLTVAADSGISPRAWQFRKMIKCVIPGSDPLEYNNYGCYCGLGGSGTPVDELDKCCQTHDNCYDQAKKL
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FIGURE 2

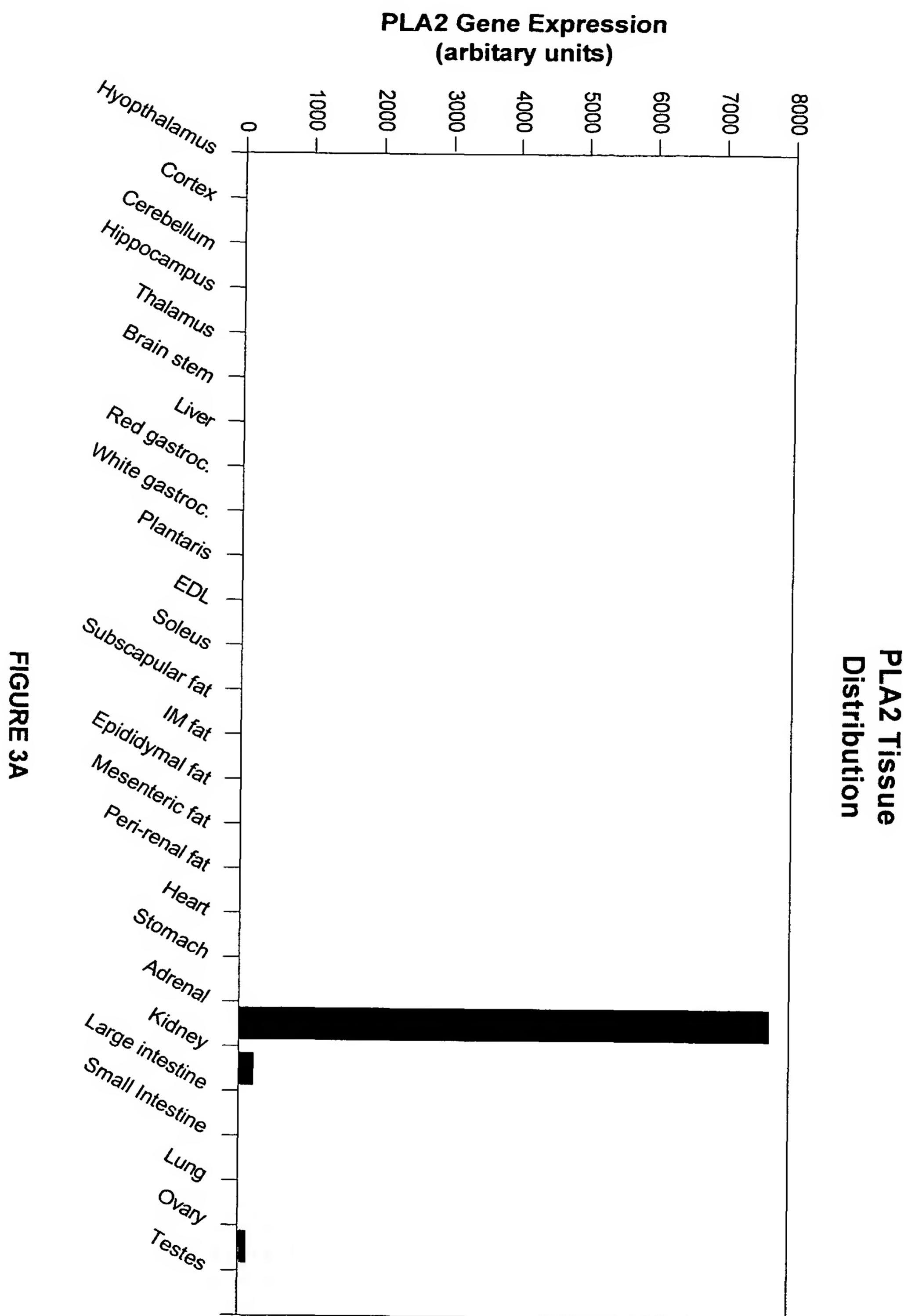


FIGURE 3A

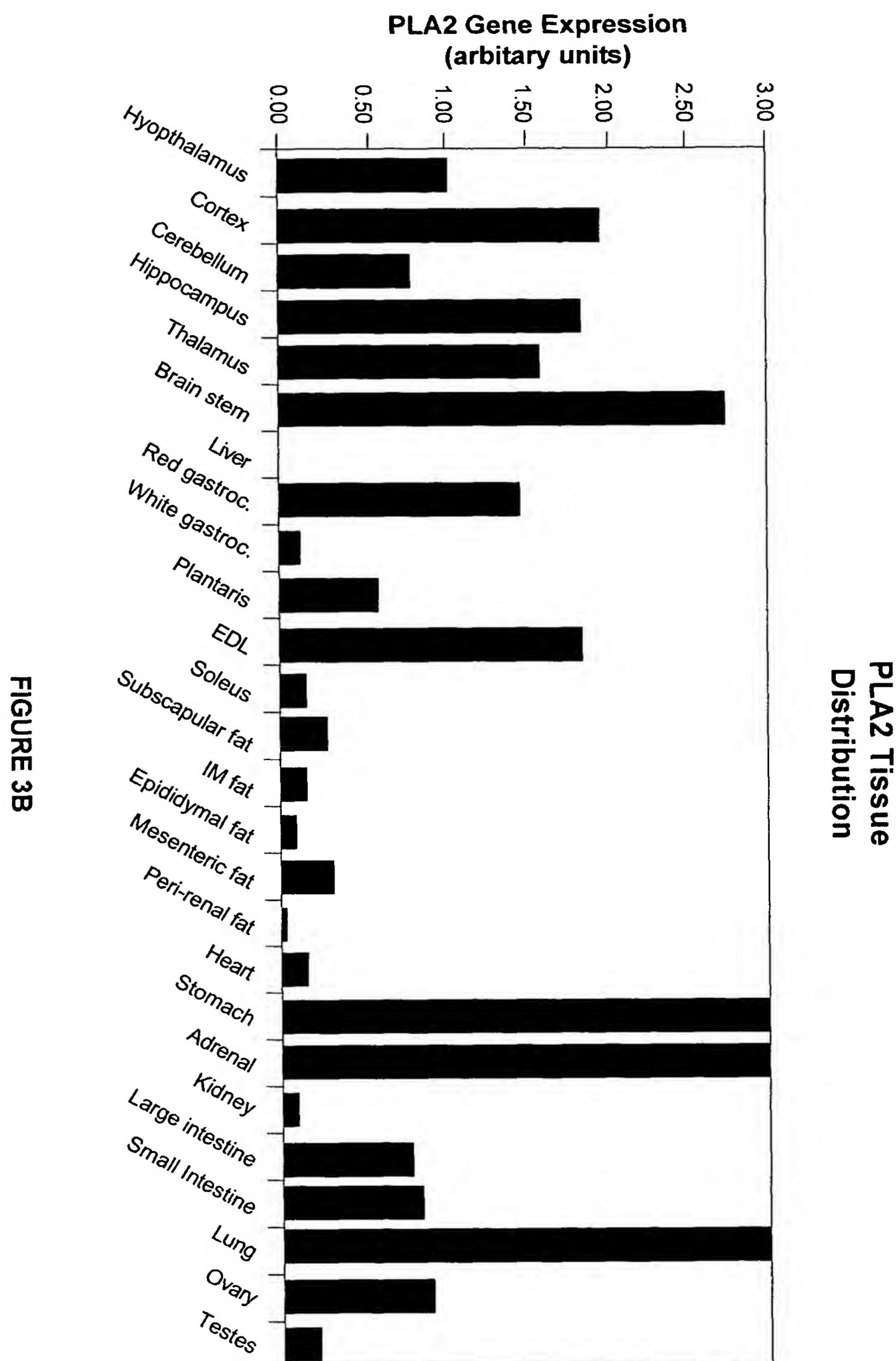


FIGURE 3B

**PLA2 Gene Expression in Four, Lean,
Healthy *Psammomys obesus* Animals**

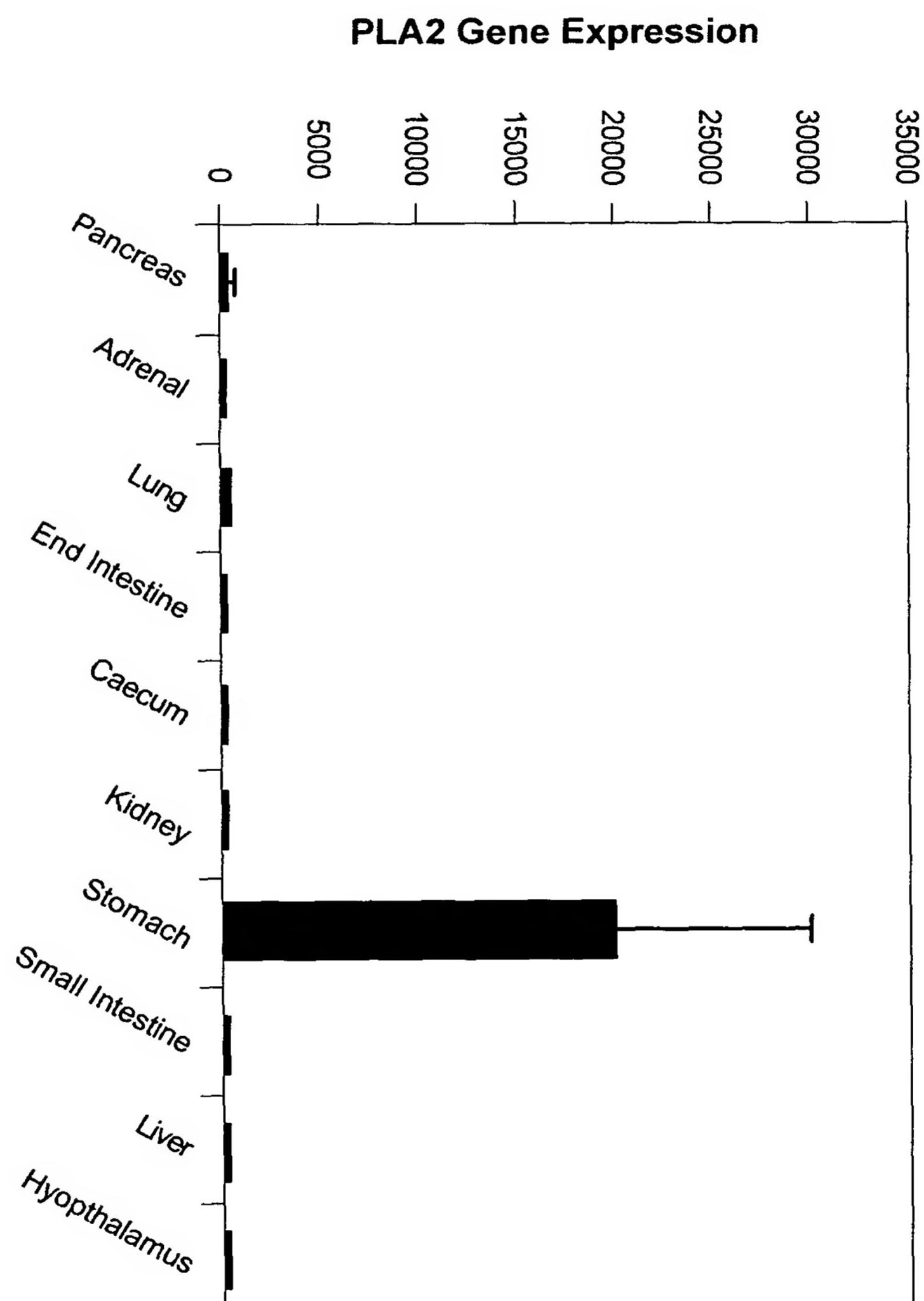


FIGURE 3C

**PLA2 Gene Expression in Four, Lean,
Healthy *Psammomys obesus* Animals**

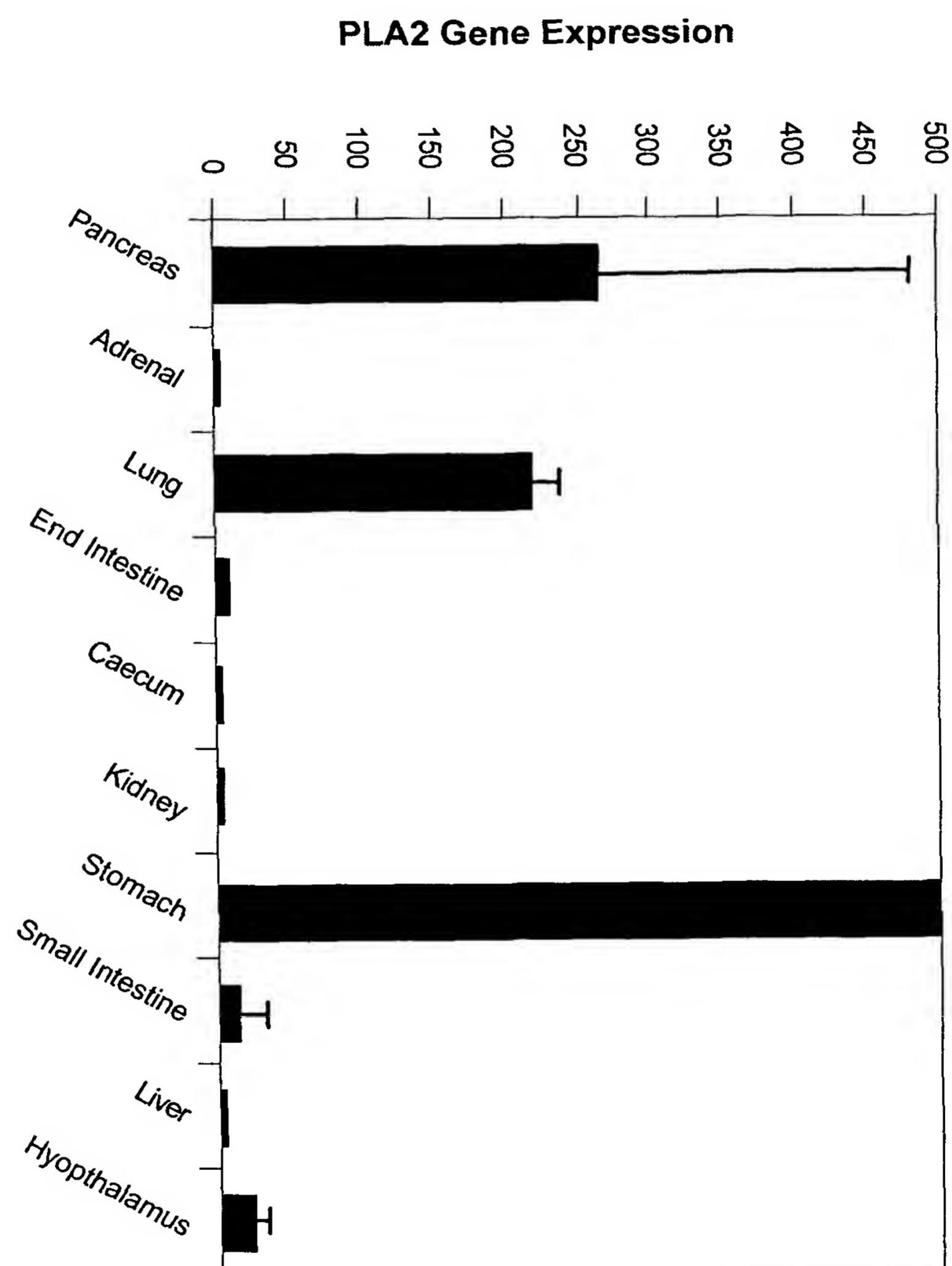


FIGURE 3D

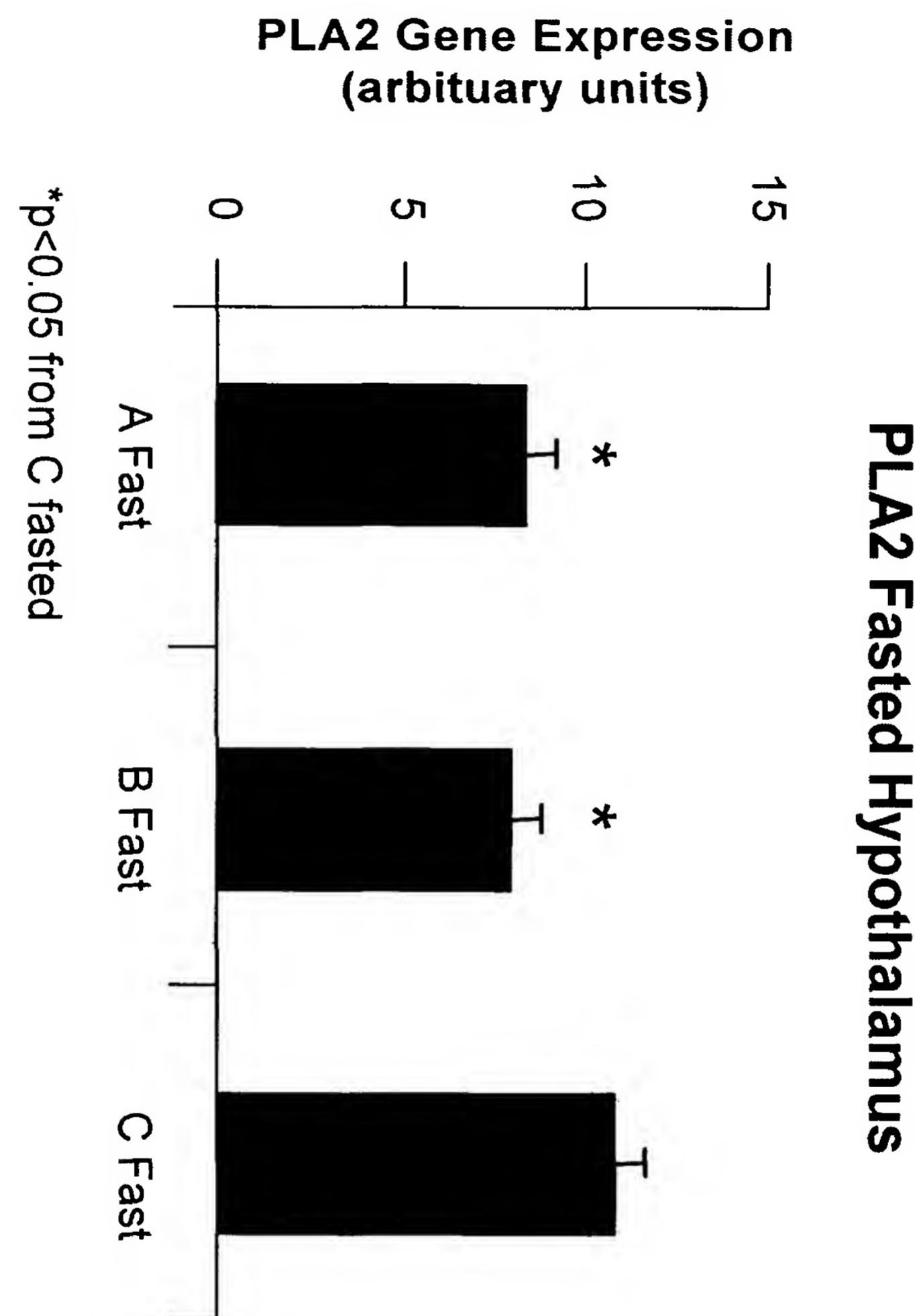


FIGURE 4A

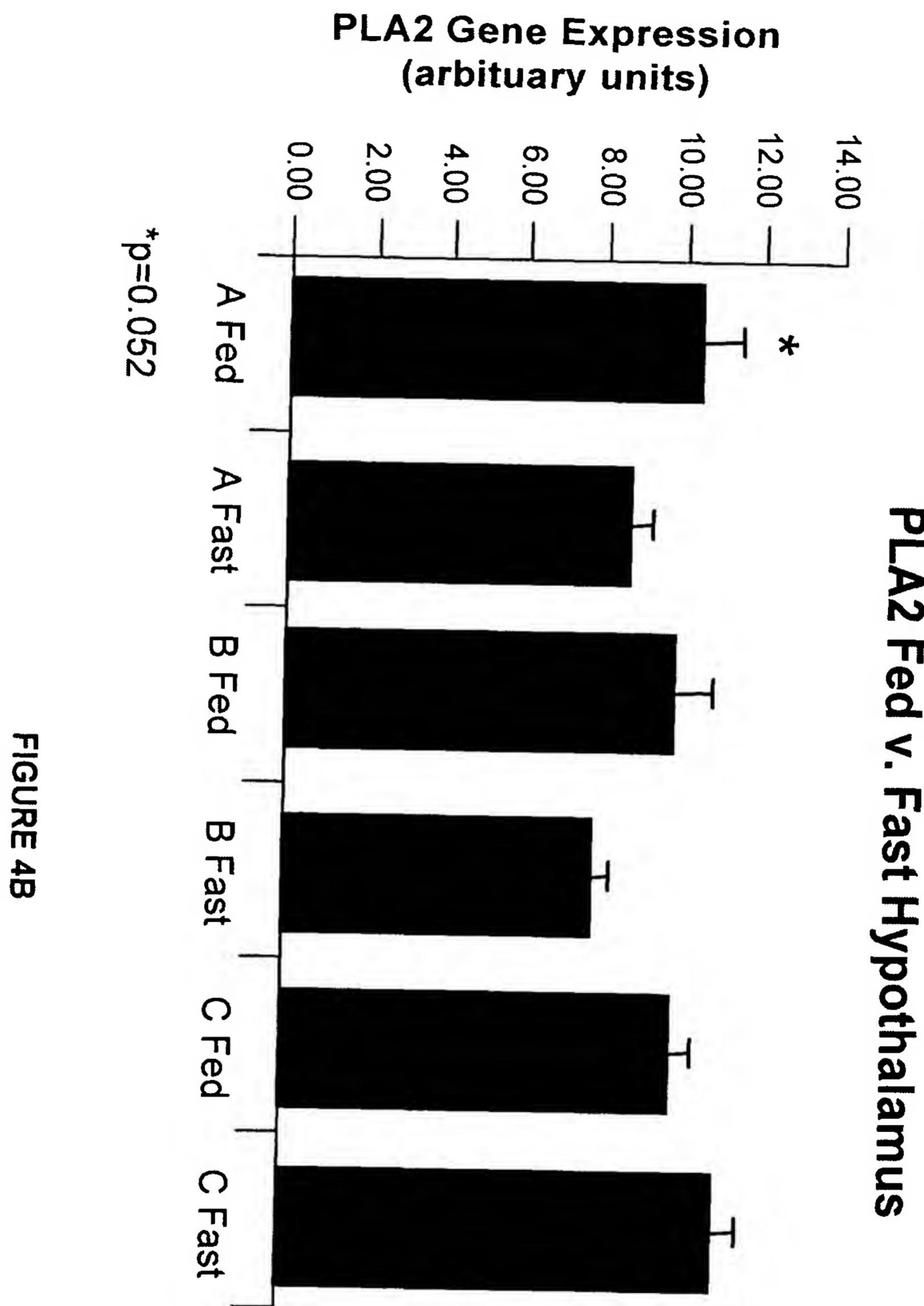


FIGURE 4B

PLA2 v BW (Fasted animals)

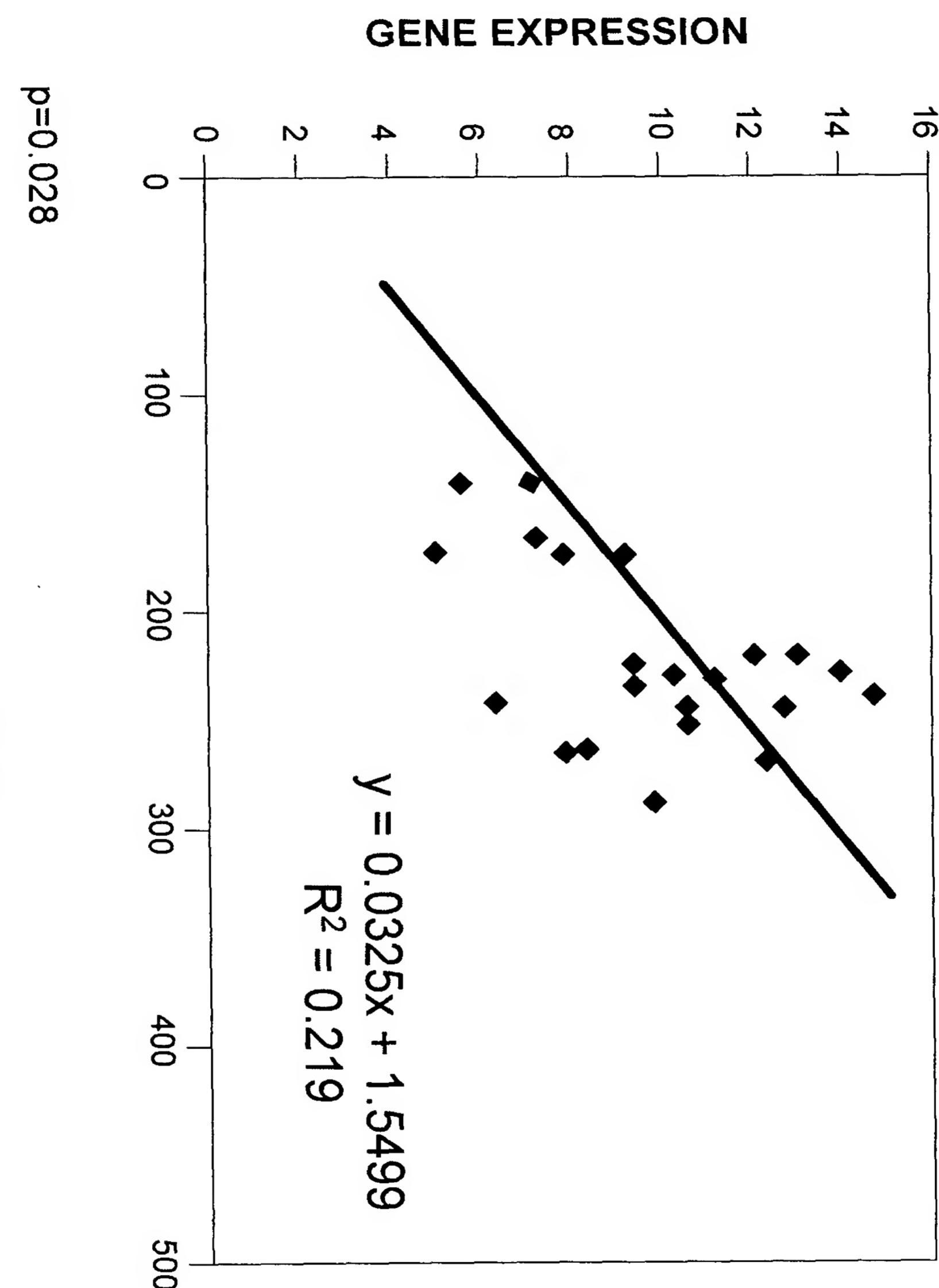


FIGURE 4C

PLA2 v Insulin (Fasted animals)

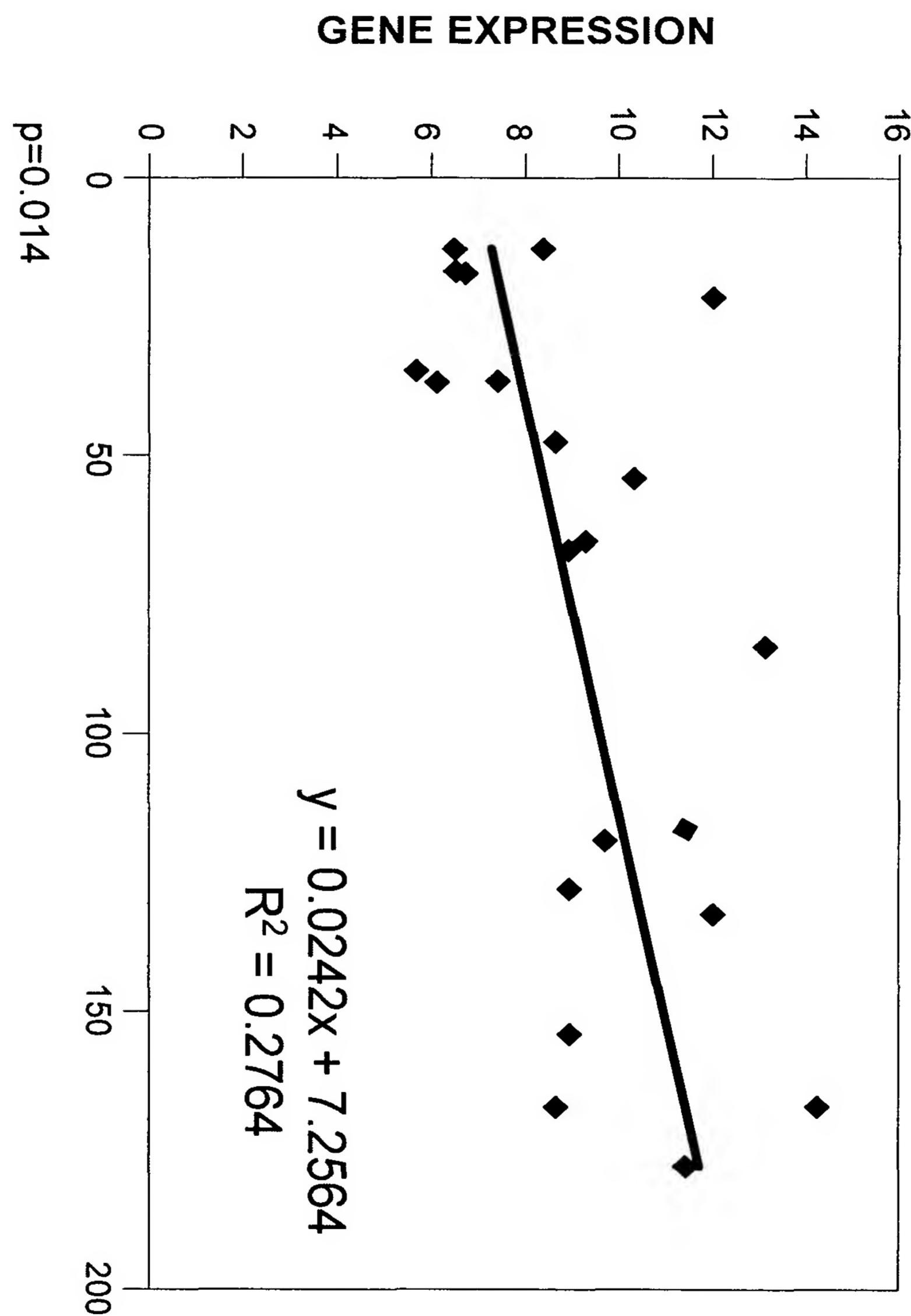
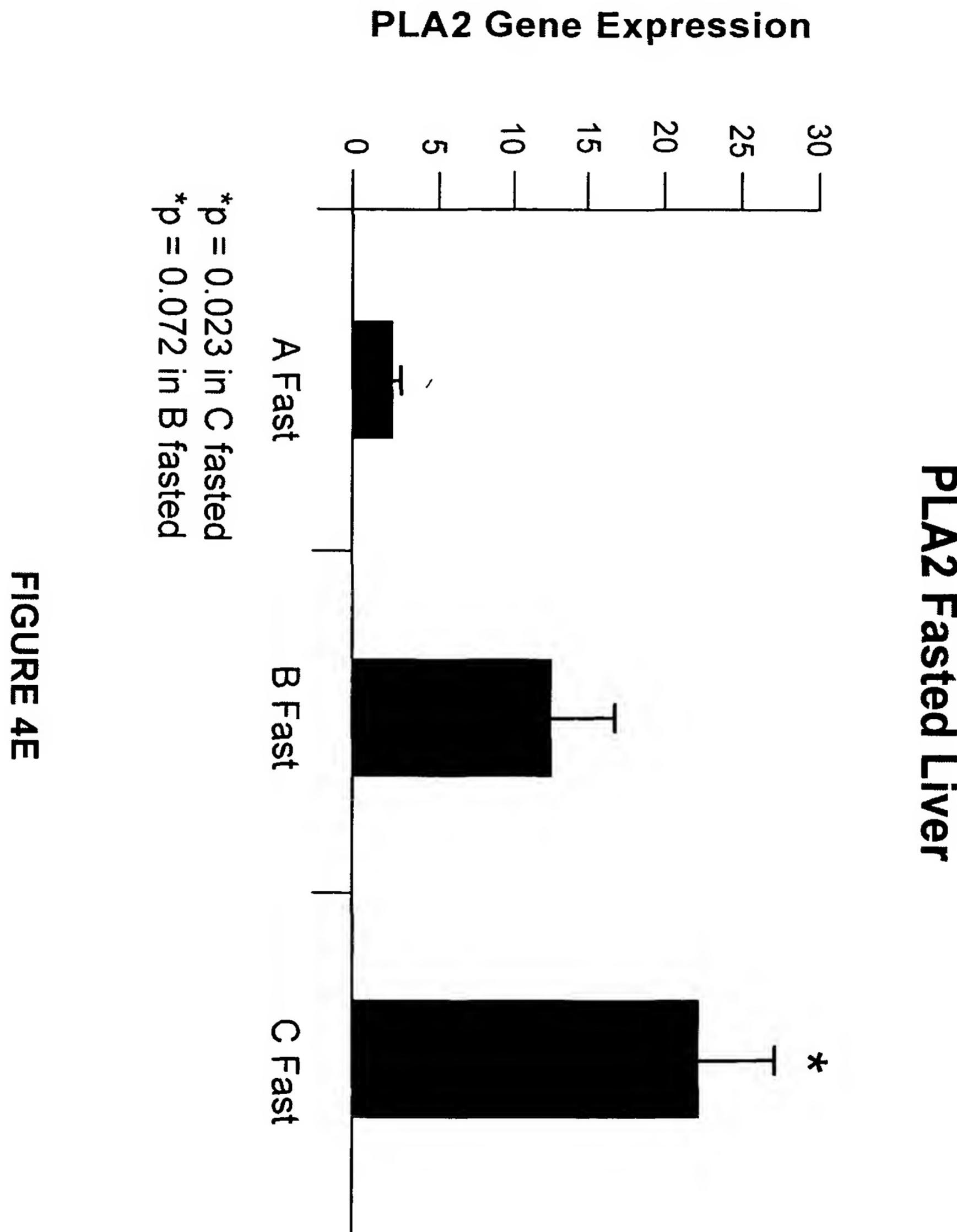


FIGURE 4D



PLA2 Fed Liver

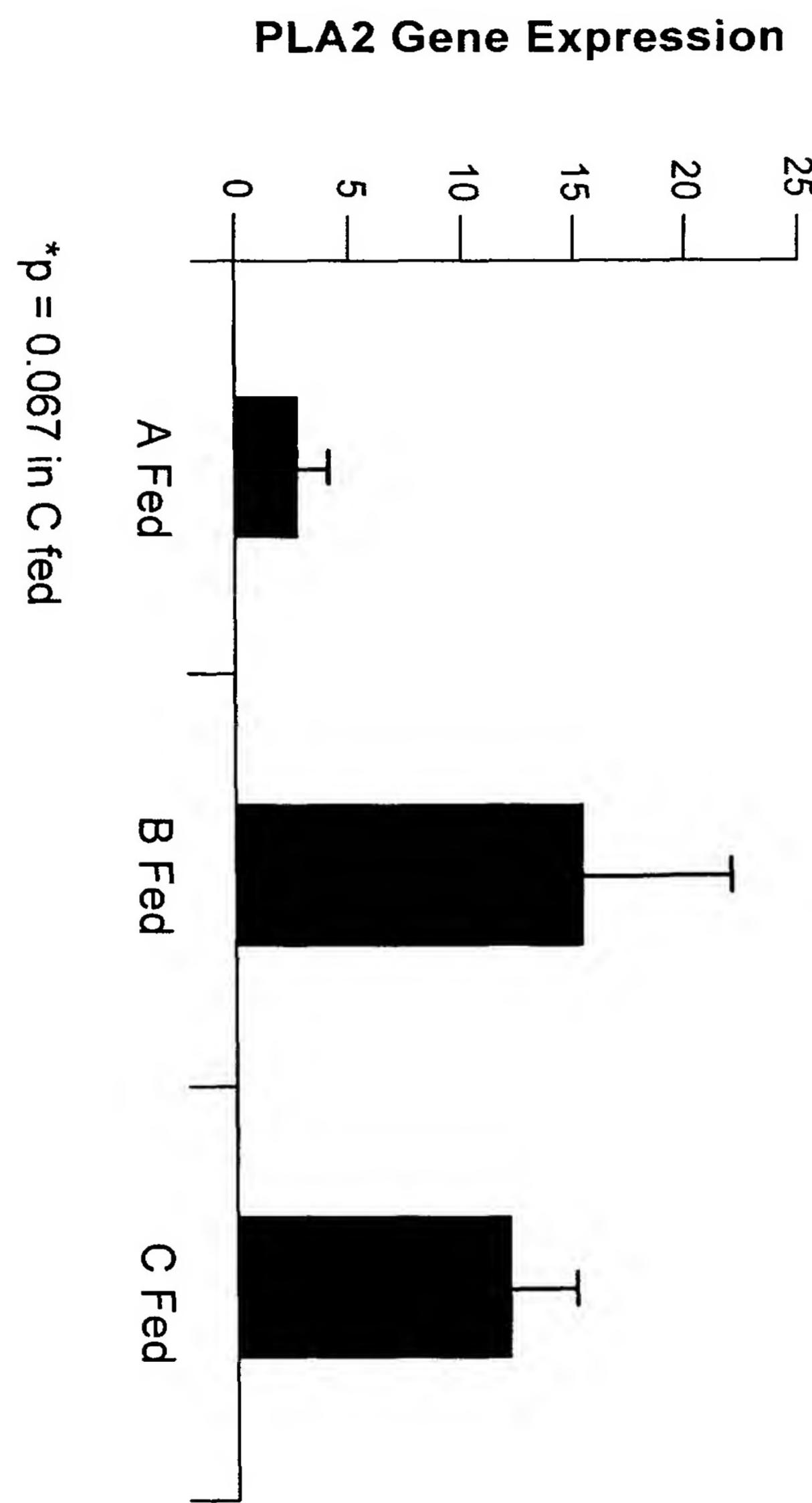


FIGURE 4F

PLA2 v Weight - Fasted animals

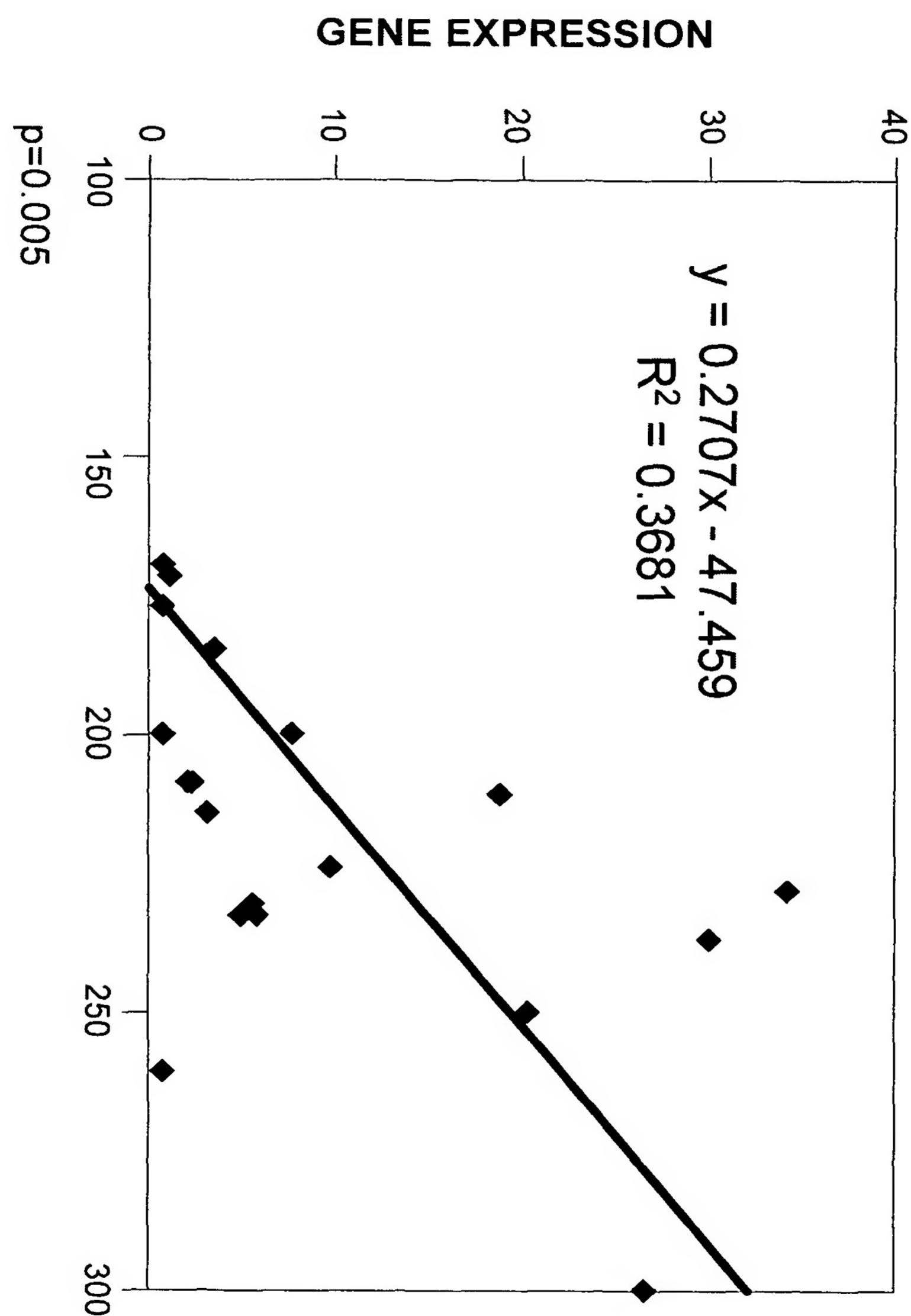
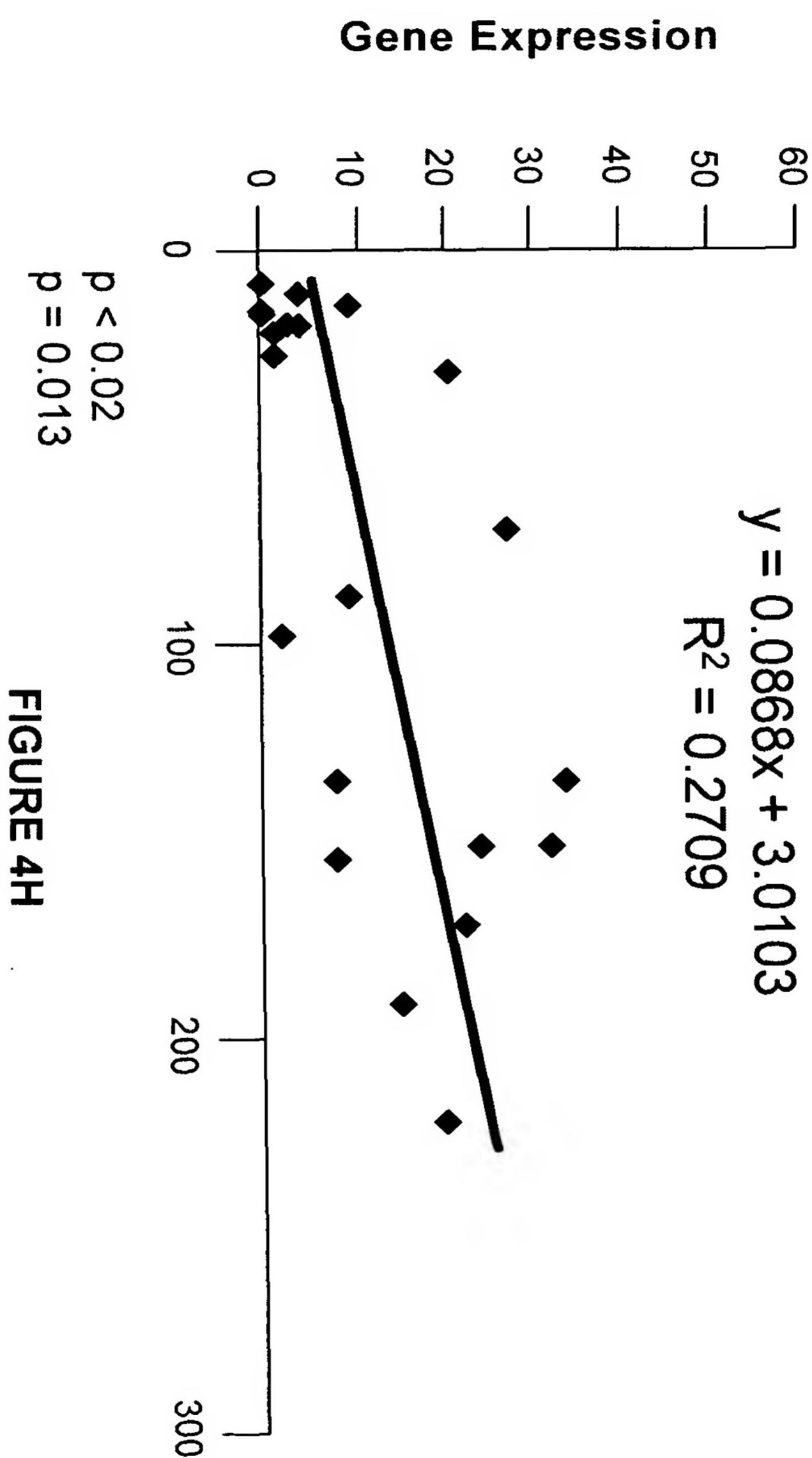


FIGURE 4G

PLA2 v Insulin Fasted Animals



PLA2 v Insulin Fasted Animals

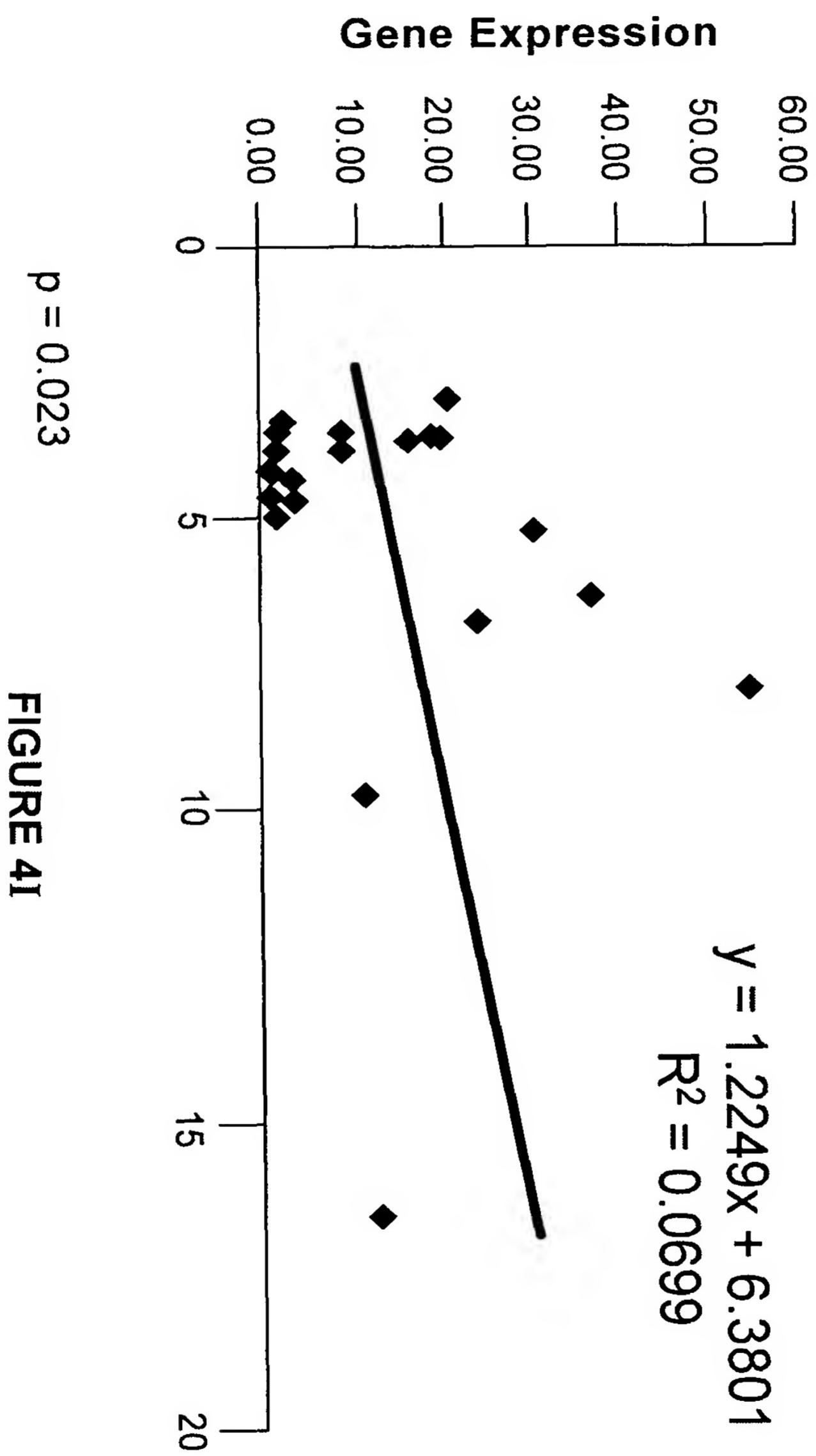


FIGURE 4I

PLA2 v Weight - Fed Animals

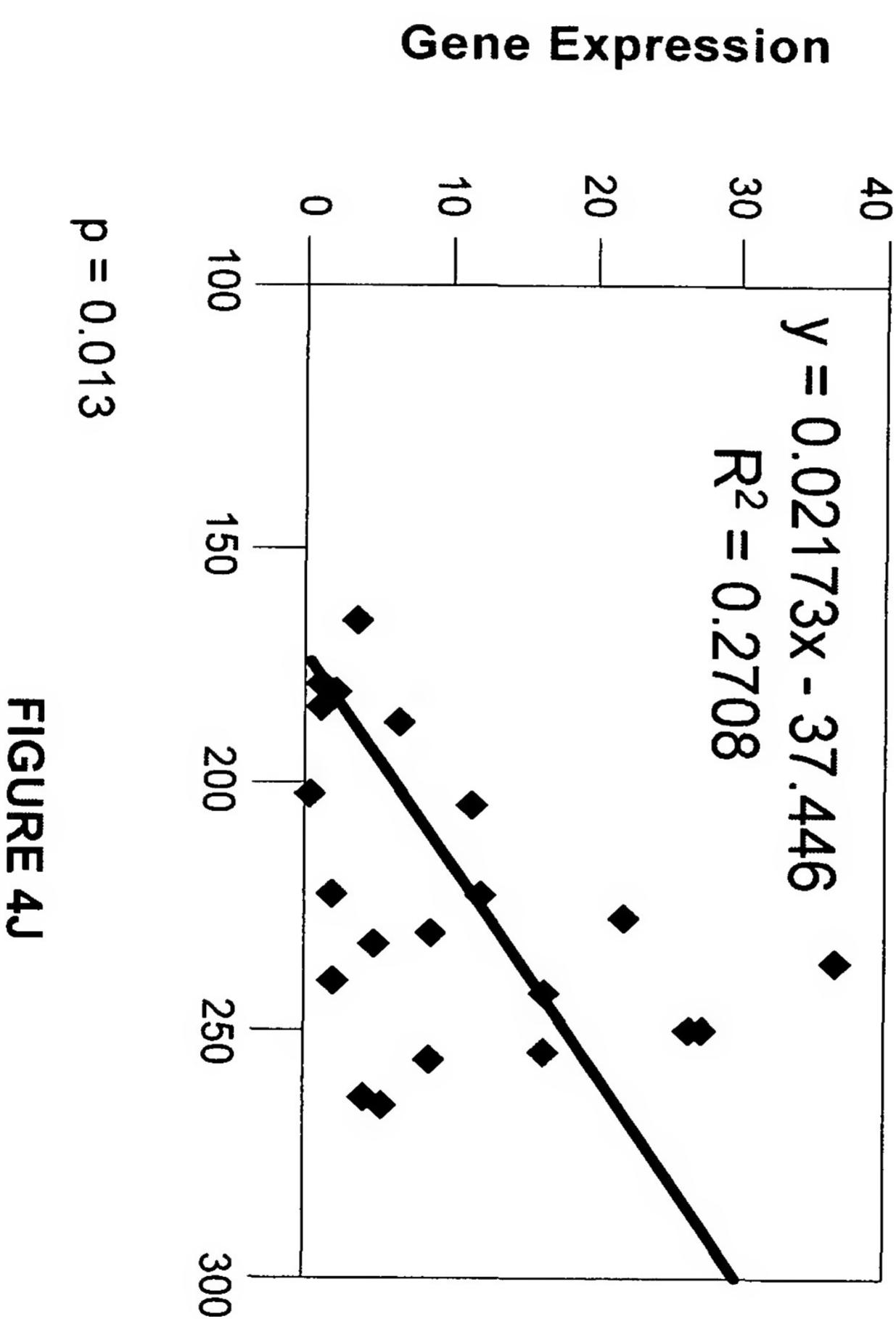
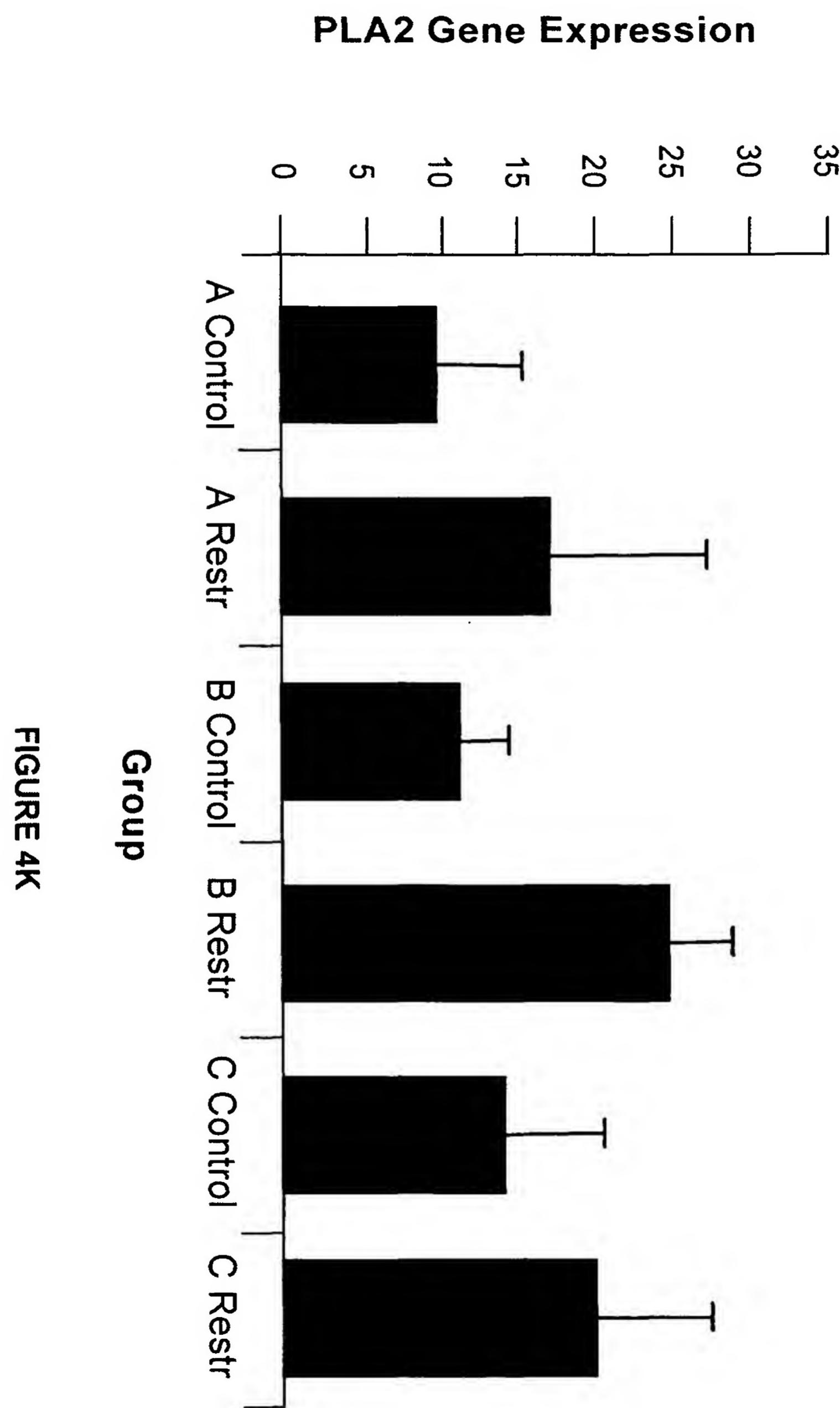
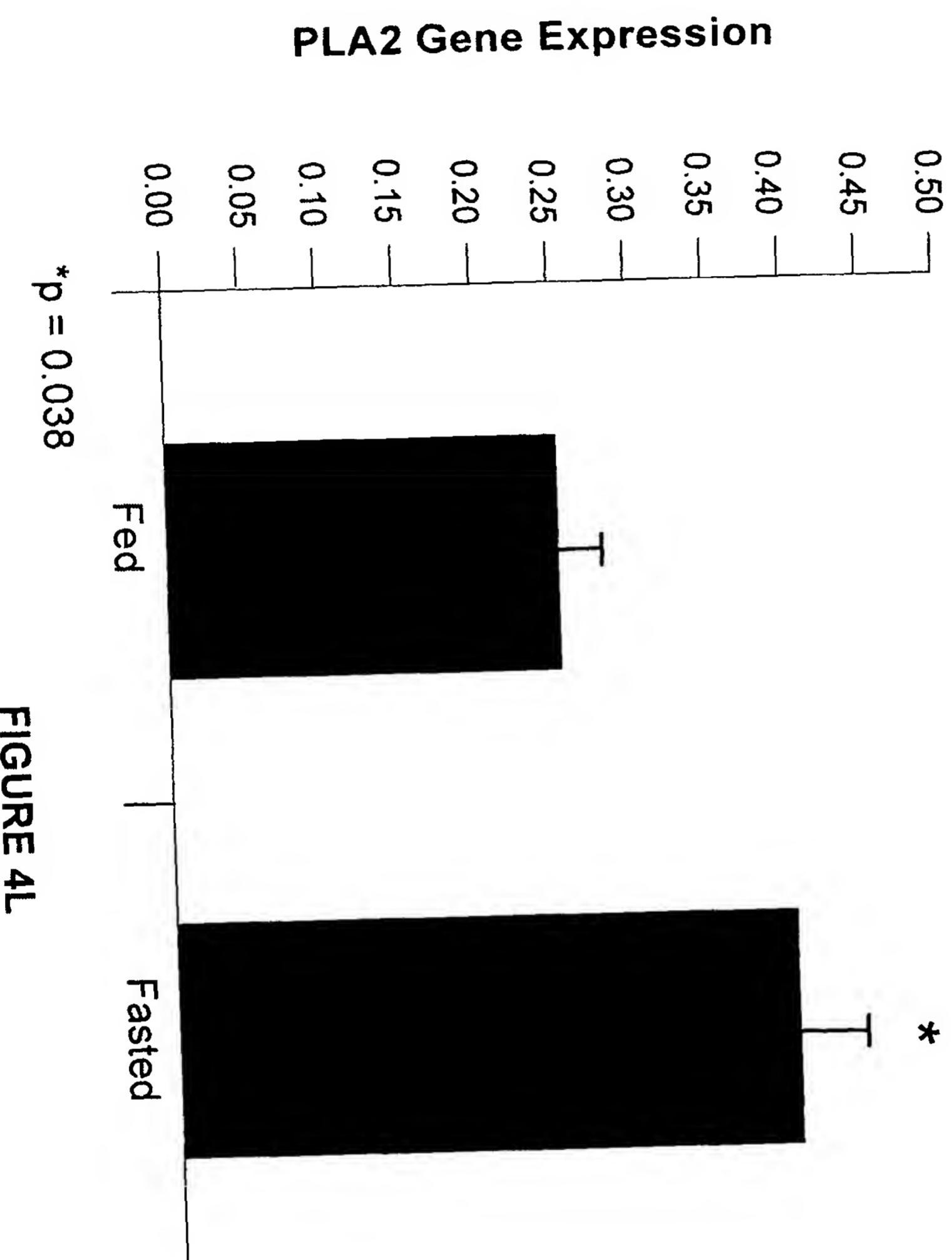


FIGURE 4J

PLA2 Pancreas - All groups



PLA2 Fed v. Fasted Scapular Fat



Title: DIAGNOSING PREDISPOSITION TO FAT
DEPOSITION AND ASSOCIATED CONDITIONS
First Inventor: Gail Isabel Reid ADAM
Docket No.: 524592003100
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Human	TGGTCATCTCAGTTCTTCTCACCTGACTGCAAGATGAAACTCCTGTGCTAGCTGT	60
Mouse	-----CTCCCCTCACTCCTCTGAAGATGAAACTCCTGTGCTGGCTGC	44
Rat	-----CCCTCGCCAAGATGAAACTCCTGTGCTGGCTGC	34
Psammomys	-----	
 Human	GCTGCTCACAGTGGCCGCCGACAGCGCATCAGCCCTGGGCGTGTGGCAGTTCCG	120
Mouse	TCTGCTCACAGCAGGCGCTGCTGCACACAGCATCAGCCCTGGGCGTGTGGCAGTTCCG	104
Rat	TTTGCTCACAGCAGGCGTTACTGCACACAGCATCAGCACTCGGGCGTGTGGCAGTTCCG	94
Psammomys	-----TGTTCCG	7

Human	CAAAATGATCAAGTGCCTGATCCCCGGGAGTGACCCCTTCTGGAATAACAACAACTACGG	180
Mouse	CAATATGATCAAGTGCACCATCCCCGGGAGTGATCCCCTGAAGGATTACAACAACATGG	164
Rat	CAATATGATCAAGTGCACCATCCCCGGGAGTGATCCCCTGAGGGAGTACAACAACATGG	154
Psammomys	CAATATGATCAAGTGCCTGCCATCCCCGGAAGTAAGCCCTGAAGGAGTACAACAACATGG	67
	*** ***** *	
Human	CTGCTACTGTGGCTTGGGGGCTCAGGCACCCCCGTGGATGAACTGGACAAGTGTGCCA	240
Mouse	CTGCTACTGTGGCTTGGCGGCTGGGACCCCCAGTGGACGACTTAGACAGGTGTGCCA	224
Rat	CTGCTACTGTGGCTTGGCGGCTCAGGCACCCCCAGTGGACGACTTAGACAGGTGTGCCA	214
Psammomys	CTGCTACTGCCTGGCGCAGGCACCCCCAGTGGACGAATTAGACAGGTGTGCCA	127
	***** *	
Human	GACACATGACAACGTATGACCAGGCCAAGAACGCTGGACAGCTGTAAATTCTGCTGGA	300
Mouse	GACTCATGACCACTGCTACAGTCAGGCCAAGAACGCTGGAAAGCTGTAAATTCCCTCATAGA	284
Rat	GACTCATGACCACTGCTACAATCAGGCCAAGAACGCTGGAAAGCTGTAAATTCCCTCATCGA	274
Psammomys	GATCCATGACAATTGCTACACTAAGGCCAAGAGGCTGAAAAGCTGTAAATTCCCTGGA	187
	** *	
Human	CAACCCGTACACCCACACCTATTCTACTCGTGTCTGGCTGGCAATCACCTGTAGCAG	360
Mouse	CAACCCCTACACCAACACTTACTCCTACTCATGCTCCGGGAGCGAGATCACCTGCAGCGC	344
Rat	CAACCCCTACACCAACACGTACTCATACAAGTGTCTCCGGGAACGTGATCACCTGCAGCGA	334
Psammomys	CAACCCCTACACCACTCATACTCGTACAAGTGTCTCCGGGAATGAGATCATCTGTAGTGA	247
	***** *	
Human	CAAAAACAAGAGTGTGAGGCCTTCATTGCAACTGCGACCGCAACGCTGCCATCTGCTT	420
Mouse	CAAAAACAACAAATGCGAGGACTTCATCTGCAACTGTGACCGTGAGGCCGCATCTGCTT	404
Rat	CAAAAACAACGACTGTGAGAGCTTCATCTGCAACTGTGACCGGCAGGCCGCATCTGTT	394
Psammomys	CAAAAACAAGGAATGCGAGGCNTTCATCTGCAACTGTGACCG-----	289
	***** *	
Human	TTCAAAAGCTCCATATAACAAGGCACACAAGAACCTGGACACCAAGAAGTATTGTCAGAG	480
Mouse	CTCCAAGGTCCCCTACAACAAGGAATACAAAAACCTTGACACCGGGAAATTCTGTAGCC	464
Rat	CTCCAAGGTCCCCTACAACAAGGAATACAAAGACCTTGACACCAAGAACACTGTTAGGC	454
Psammomys	-----	
 Human	TTGAATATCACCTCTCAAAGCATCACCTCTAT-----CTGCCTCATCTC-ACACTG	531
Mouse	TGTCACCTCACTTCTGCCACGCCGACCCCCGCCACCTGCTGTCTTATTTC-ACCCTG	523
Rat	TGTCACCCCACTTCTGTCTATGCCGTCCCCGCTCCCTGCTGTCTTATTCTGCACCG	514
Psammomys	-----	
 Human	TACTCTCCAATAAAGCACCTGTTGAAAGAA	562
Mouse	CGCCCTCTAATAAAGTACCT-GCTGTCAGA-	552
Rat	CACCCTCTAATAAAGTACCA-GCAGAAAG--	542
Psammomys	-----	

FIGURE 5A

Title: DIAGNOSING PREDISPOSITION TO FAT
DEPOSITION AND ASSOCIATED CONDITIONS
First Inventor: Gail Isabel Reid ADAM
Docket No.: 524592003100
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Human	MKLLVLAVLLTVAADSGISPRAVWQFRKMIKCVIPGSDPFLEYNNYGCYCGLGGSGTPV	60
Mouse	MKLLLLAALLTAGAAAHSISPRAVWQFRNMIKCTIPGSDPLKDYNNYGCYCGLGGWGT	60
Rat	MKLLLLAALLTAGVTAHISTRAVWQFRNMIKCTIPGSDPLREYNNYGCYCGLGGSGTPV	60
Psammomys	MKLLLLAALLTAGVGAHSISTRAVWQFGNMIKCAIPGSKPLKEYNNYGCYCGLGGAGTPV	60
	*****:***.****... **.*****:*****.*****.*: :*****.*****	*****
Human	DELDKCCQTHDNCYDQAKKLDSCFKFLDNPYTHTYSYSCGSAITCSSKNKECEAFICNC	120
Mouse	DDLDRCCQTHDHCYSQAKKLESCKFLIDNPYTNTYSYSCGSEITCSAKNNKCEDFICNC	120
Rat	DDLDRCCQTHDHCYNQAKKLESCKFLIDNPYTNTYSYKCSGNVITCSDKNNDCESFICNC	120
Psammomys	DELDRCCQIHDNCYTKAKRLKSCKSLLDPYTHSYKCSGNEIICSDKNKECEAFICNC	120
	*:***:*** *:***:***.***:*****:*****.***.***. * * * ***:***	*****
Human	DRNAAICFSKAPYNKAHKNLDTKKYCQS	148
Mouse	DREAAICFSKVYPNKEYKNLDTGKFC--	146
Rat	DRQAAICFSKVYPNKEYKDLDTKKHC--	146
Psammomys	DRAAAICFSKAPYNQDKNLNTKNC--	146
	** *****.*** *.*:*** *	

FIGURE 5B